

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/685,475	10/10/2000	Esa Vuoppola	100.157US01	4331
759	90 10/08/2003 -		EXAMINER	
Fogg Slifer & Polglaze P A		NGUYEN, TU X		
P O Box 581009 Minneapolis, MN 55458-1009		•	ART UNIT	PAPER NUMBER
willineapons, w	114 33430-1007		2684	
			DATE MAILED: 10/08/2003	ط

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
		09/685,475	VUOPPOLA, ESA			
	Office Action Summary	Examiner	Art Unit			
		Tu X Nguyen	2684			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)⊠						
2a)□	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-32</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	Claim(s) <u>1-23 and 28-32</u> is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>24,26 and 27</u> is/are rejected.					
7)[🖂	Claim(s) <u>25</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
_a) _ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

Application/Control Number: 09/685,475

Art Unit: 2684

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 24-27 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 24 and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Shaheen et al. (US Patent 6,374,109).

Regarding claims 24 and 26, Shaheen et al. disclose a wireless system, comprising:

a mobile switching center that is adapted to be coupled to the public switched telephone network (see col.5 lines 1-5);

a plurality of base stations (fig.1b), communicatively coupled to the mobile switching center, that are adapted to communicate with wireless terminals using one of at least two services (see col.7 line 60 through col.8 line 12), and

wherein each base station supports the at least two services within the geographic area of the base station (see col.3 lines 51-60).

Art Unit: 2684

Regarding claim 27, Shaheen et al.. disclose the first frequency band is above 1800 Megahertz and the second frequency band is below 1000 Megahertz (see col.3 lines 44-50).

Allowable Subject Matter

- 4. Claims 1-23 and 28-32, allowable.
- 5. Claim 25 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

Regarding independent claims 1, 7 and 21, none of prior art teaching "a second path, coupled between the first and second ports, the second path including a filter that stops upstream signals in the first frequency band and passes upstream signals in at least a second frequency band and downstream signals in at least third and fourth frequency bands" as cited in the claim.

Regarding independent claims 15 and 28, none of prior art teaching "passing at least one additional frequency band of the received signal without amplification" as cited in the claim.

Regarding independent claim 29, none of prior art teaching "a plurality of amplification circuits coupled to the antenna and coupled in series, each amplification circuit adapted to selectively amplify upstream signals in a selected frequency band for

Art Unit: 2684

Page 4

a selected service and to pass downstream signals and other upstream signals" as cited in the claim.

Regarding dependent claim 25, none of prior art teaching "received form wireless terminals for one of the service and that passes without amplification signals form other wireless terminals for the other service" as cited in the claim.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is (703) 305-3427. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (703) 308-7749.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 2600 Customer Service Office at (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314 (Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

9/24/03

NAY MAUNG SUPERVISORY PATENT EXAMINER